

A-47

SERVICE MANUAL

(M-47)

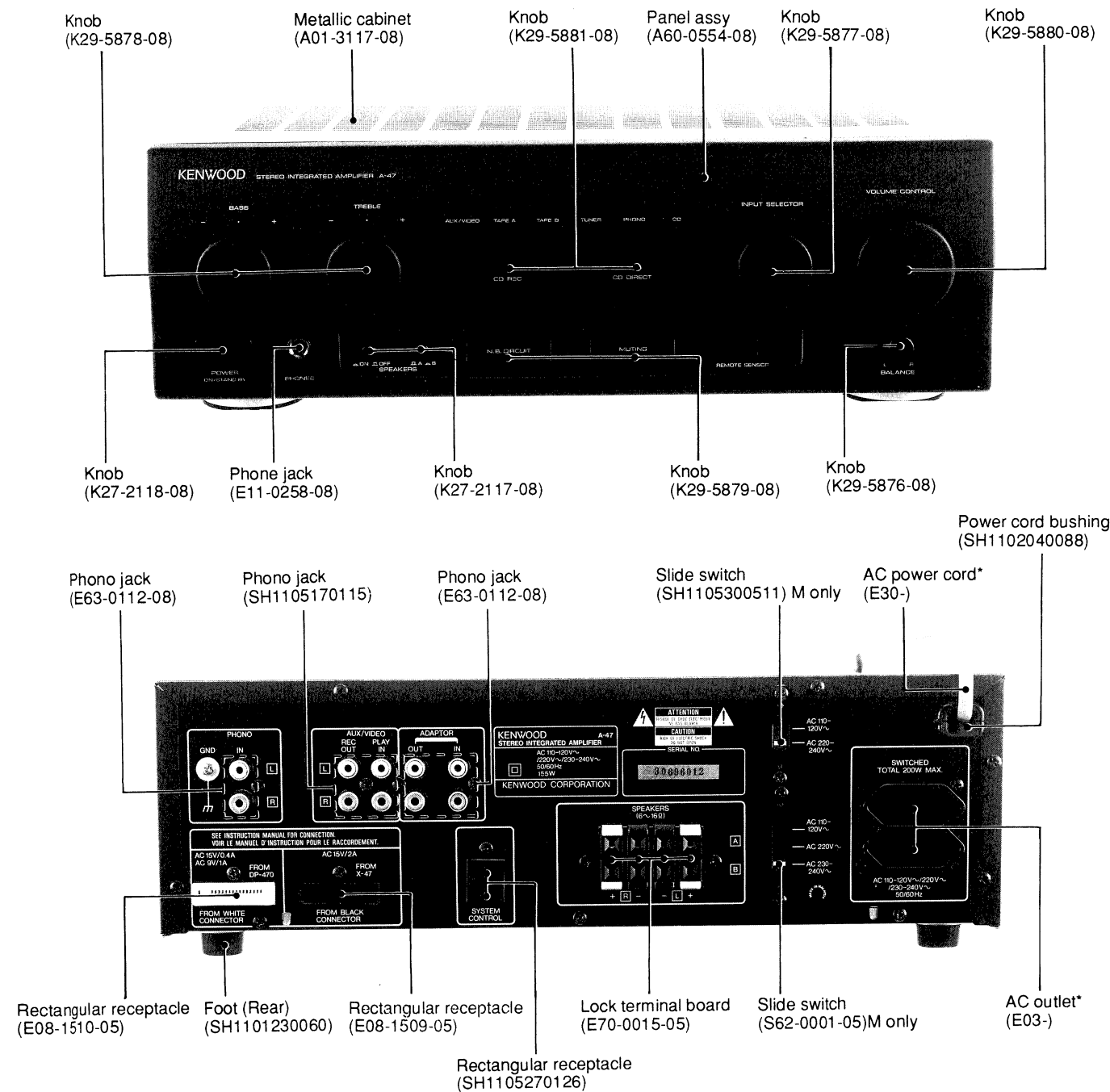
KENWOOD

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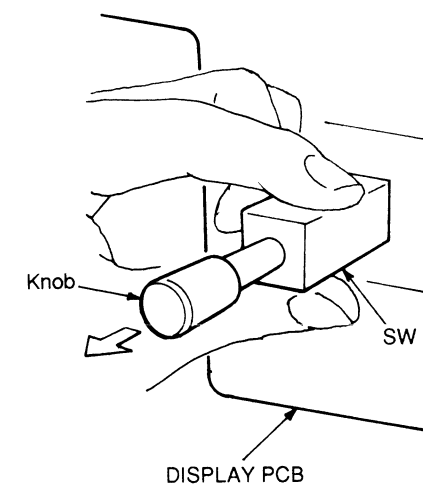
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Removing the Control Knobs of SP Selector Switches (S500 and S501)



Fix the upper and lower white molded parts of the switches manually and pull out the control knobs straightly.

* Refer to parts list on page 18.

STEREO AMPLIFIER

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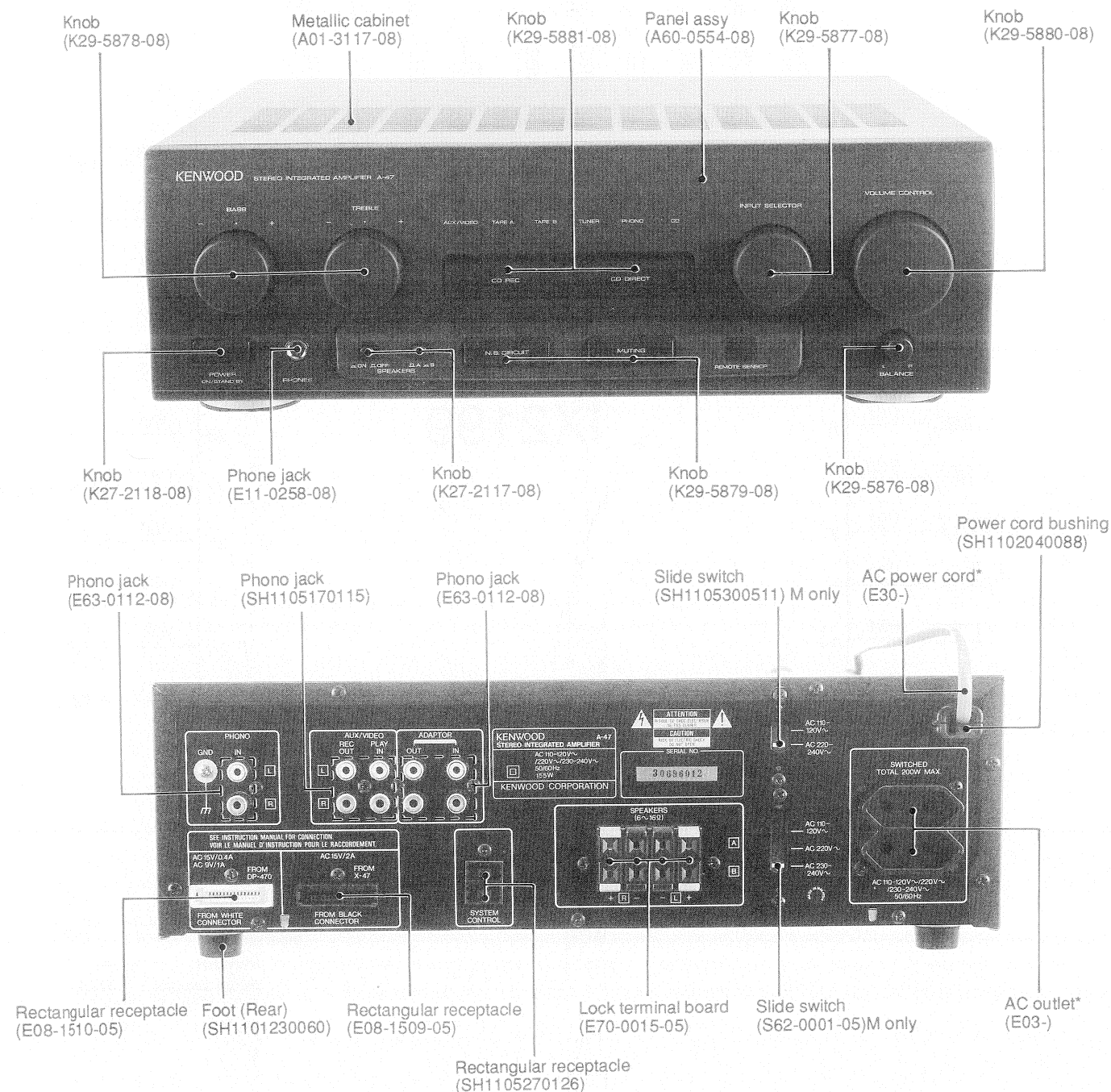
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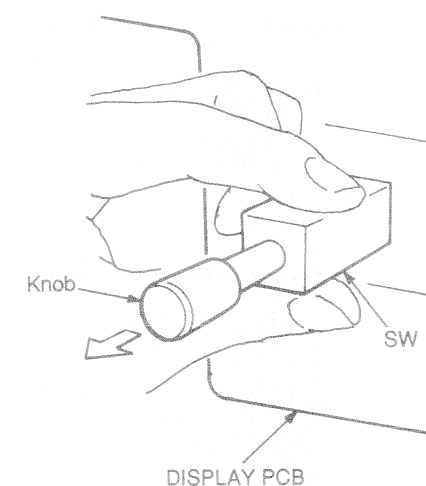
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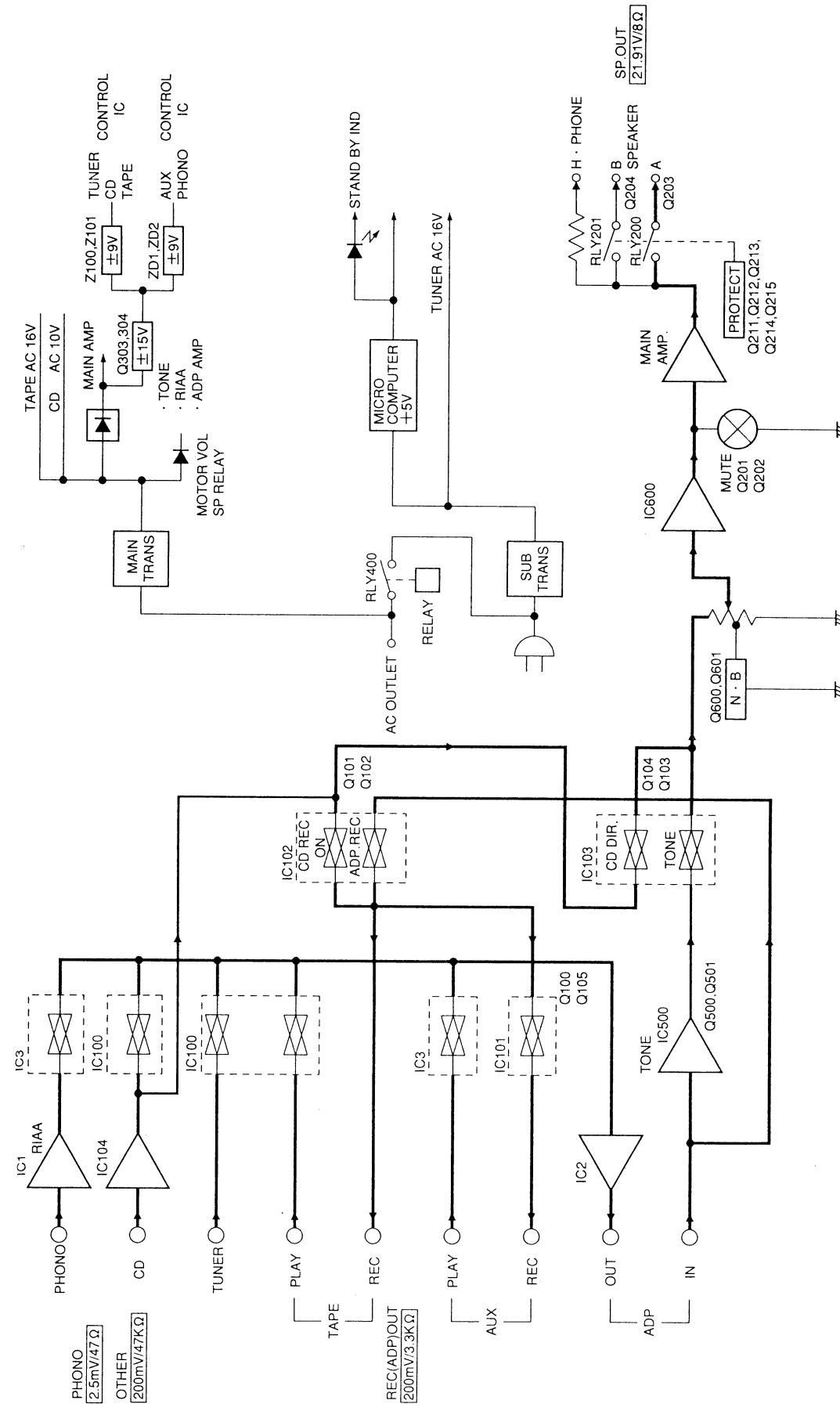
Removing the Control Knobs of SP Selector Switches (S500 and S501)



Fix the upper and lower white molded parts of the switches manually and pull out the control knobs straightly.

* Refer to parts list on page 18.

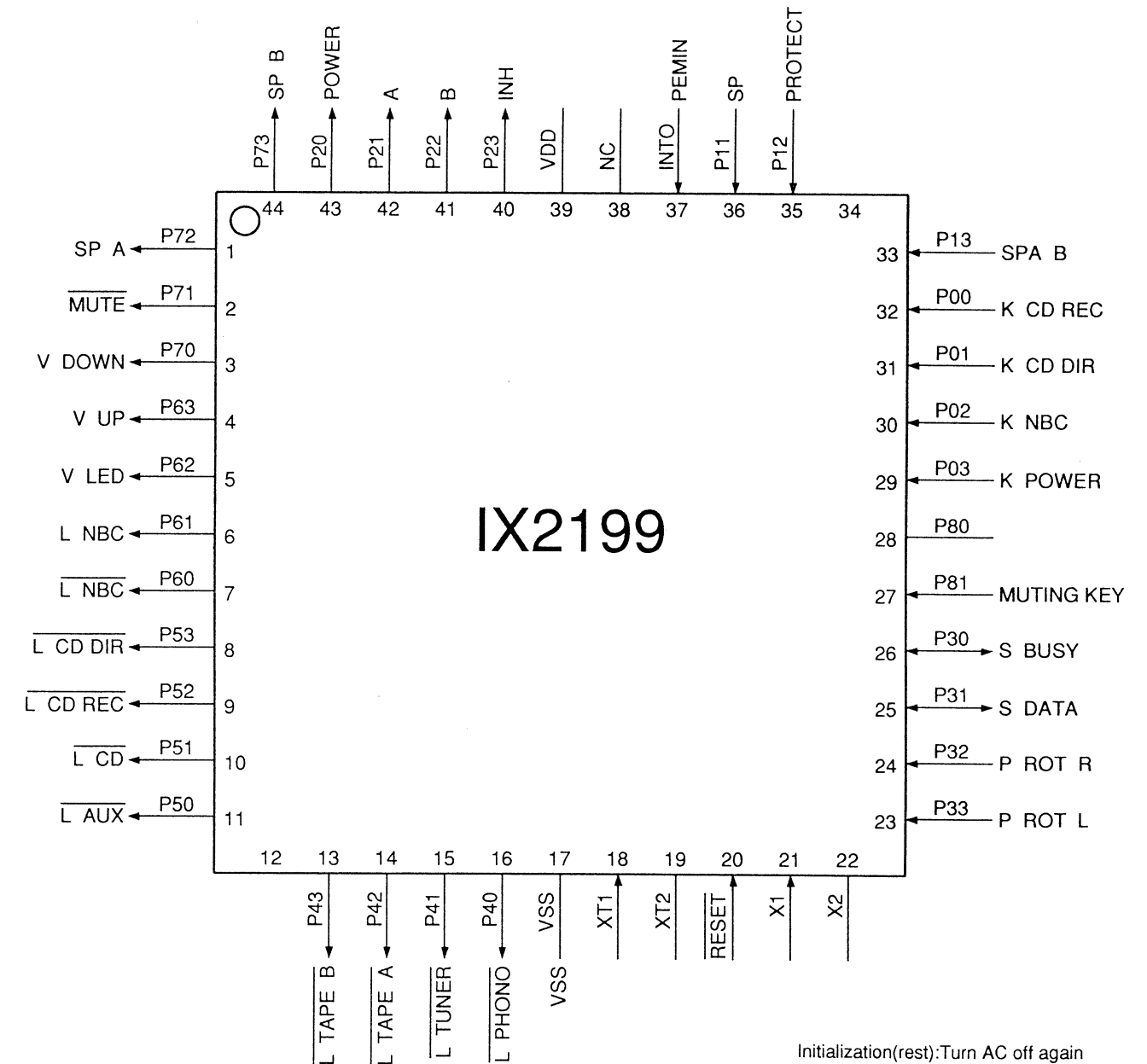
BLOCK LEVEL DIAGRAM



CIRCUIT DESCRIPTION

Amp Microprocessor: IX2199 (MAIN PCB: IC501)

Pin Connection



Initialization(rest): Turn AC off again
Initial state
POWER : OFF
Audio selector : TUNER
N.B.CIRCUIT : OFF
MUTING : OFF

CIRCUIT DESCRIPTION

Pin Function: IX2199 (MAIN PCB: IC501)

Pin No.	Pin name	I/O	Name	Description
1	P72	OUT	SP A	Speaker relay A
2	P71	OUT	MUTE	Mute
3	P70	OUT	V DOWN	Volume down
4	P63	OUT	V UP	Volume up
5	P62	OUT	V LED	Volume LED
6	P61	OUT	L NBC	NB circuit LED
7	P60	OUT	L NBC	NB circuit ON/OFF
8	P53	OUT	L CD DIR	CD direct LED
9	P52	OUT	L CD REC	CD REC LED
10	P51	OUT	L CD	CD LED
11	P50	OUT	L AUX	AUX/DAT LED
13	P43	OUT	L TAPE B	TAPE B LED
14	P42	OUT	L TAPE A	TAPE A LED
15	P41	OUT	L TUNER	TUNER LED
16	P40	OUT	L PHONO	PHONO LED
17	Vss		Vss	GND
18	XT1	IN		GND
19	XT2			Open
20	RESET	IN		Reset signal input port
21	X1	IN		Oscillator
22	X2			Oscillator
23	P33	IN	P ROT L	Rotary encoder L
24	P32	IN	P ROT R	Rotary encoder R
25	P31	I/O	S DATA	Serial data
26	P30	I/O	S BUSY	Serial busy
27	P81	IN	MUTING KEY	Key muting
28	P80			
29	P03	IN	K POWER	Key power
30	P02	IN	K NBC	Key NB circuit
31	P01	IN	K CD DIR	Key CD direct
32	P00	IN	K CD REC	Key CD REC
33	P13	IN	SP A.B.	Speaker A and B on/off
35	P12	IN	PROTECT	Detects protection
36	P11	IN	SP	SP on/off
37	INT0	IN	PEMIN	Remote control input pin
38	NC			+5V
39	VDD			+5V
40	P23	OUT	INH	Control 4052. INH
41	P22	OUT	B	Control 4052. B
42	P21	OUT	A	Control 4052. A
43	P20	OUT	POWER	Power
44	P73	OUT	SP B	Speaker relay B

ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	IDLE CURRENT	—	Connect a DC voltmeter across TP201 (L) TP202 (R) (MAIN PCB)	VOLUME: 0	VR201 (L) VR202 (R) (MAIN PCB)	3.3 - 6.6 mV (Before get up heat.)	(a)

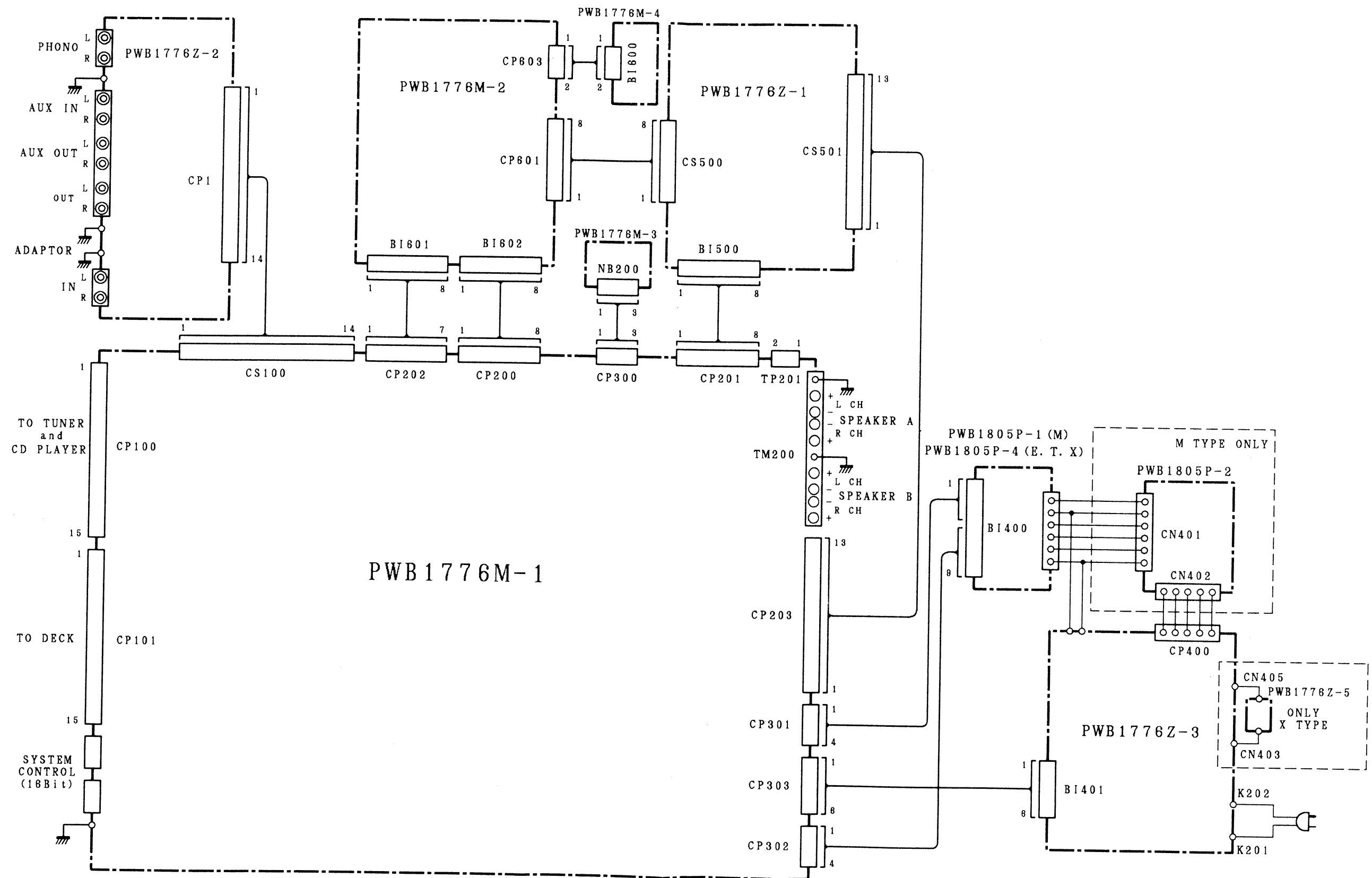
REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
1	COURANT DE PLARISATION	—	Connecter un voltmètre de CC sur TP201 (G) TP202 (D) (MAIN PCB)	VOLUME: 0	VR201 (G) VR202 (D) (MAIN PCB)	3.3 - 6.6 mV. (Avant que l'appareil chauffe)	(a)

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	VERSTÄRKER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
1	LEERLAUFSTROM	—	Einen Gleichspannungs-messer Über TP201 (L) TP202 (R) anschließen. (MAIN PCB)	VOLUME: 0	VR201 (L) VR202 (R) (MAIN PCB)	3.3 - 6.6 mV (Vor dem Warmlaufen)	(a)

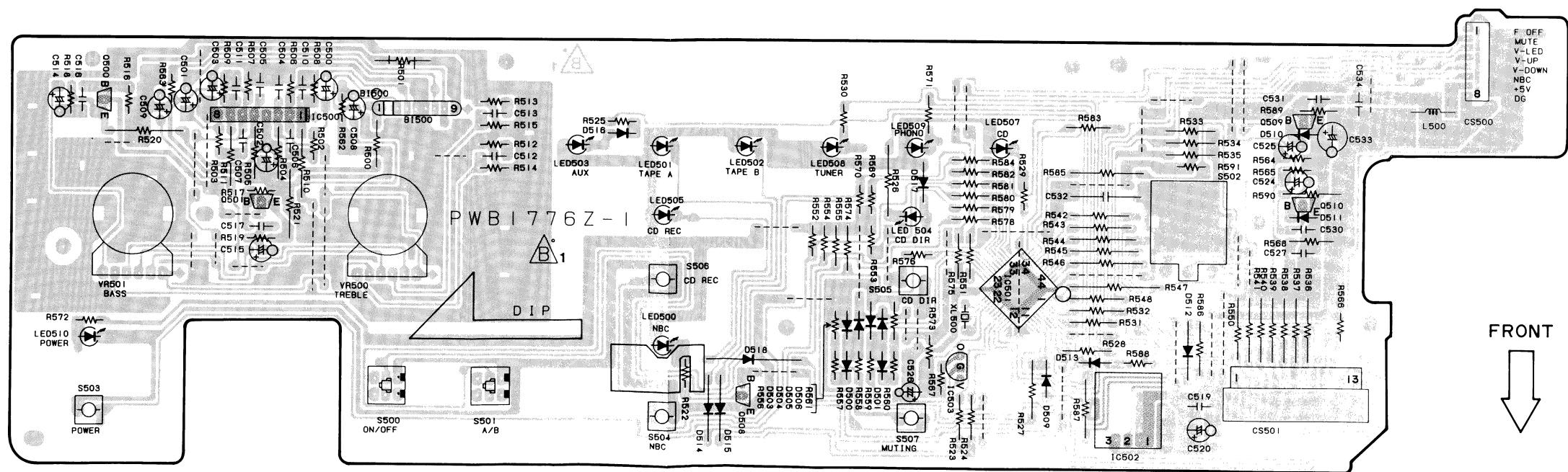
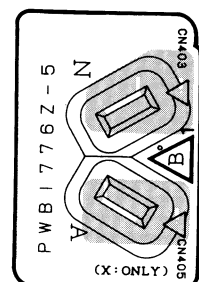
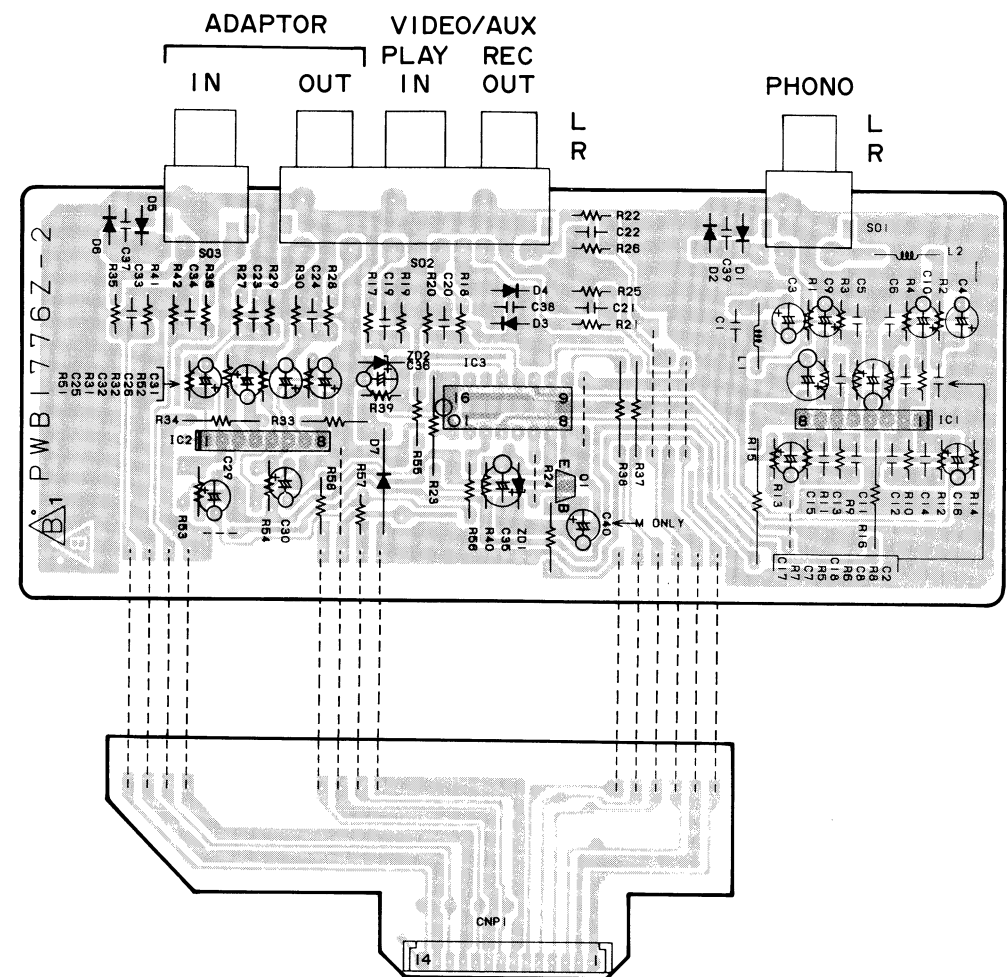
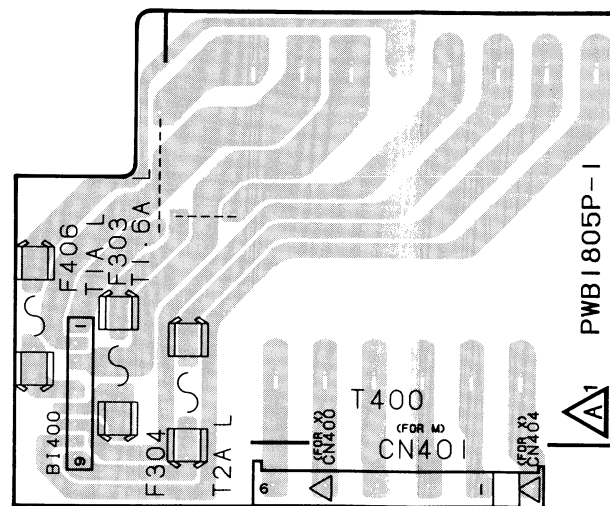
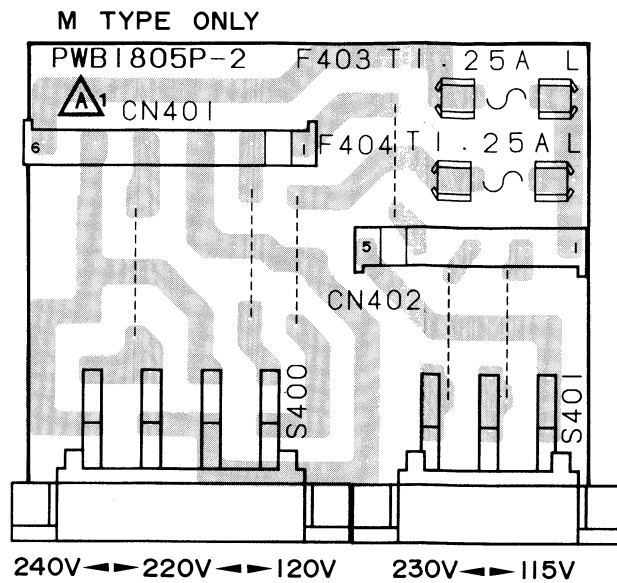
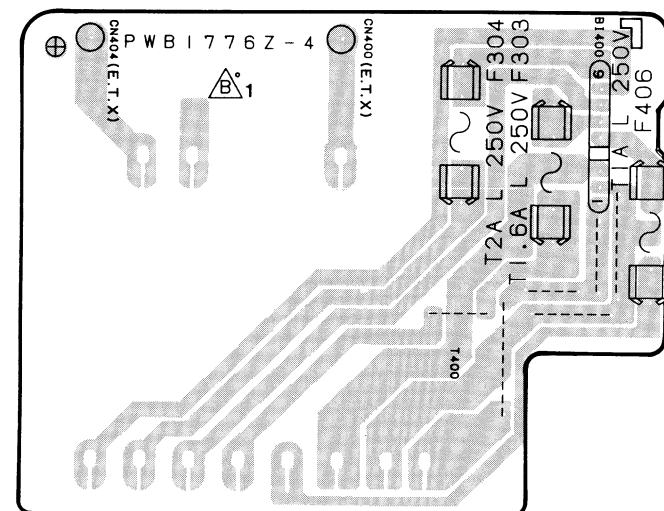
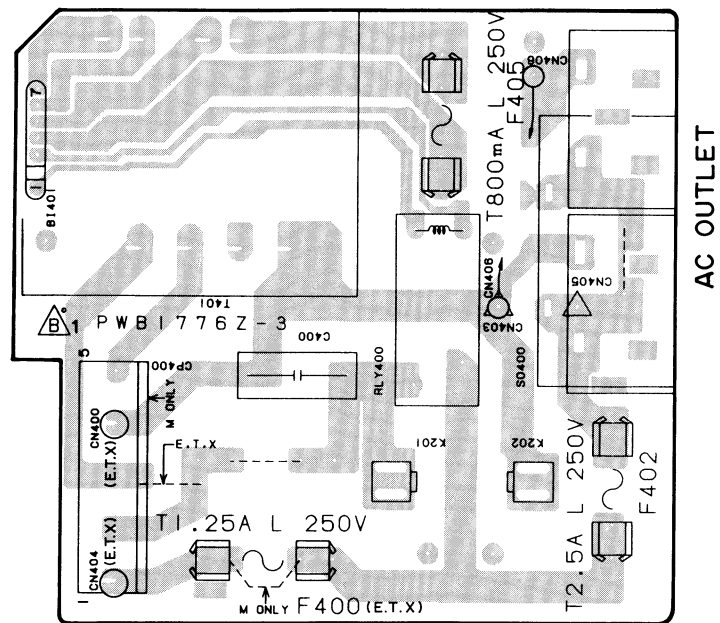
WIRING DIAGRAM



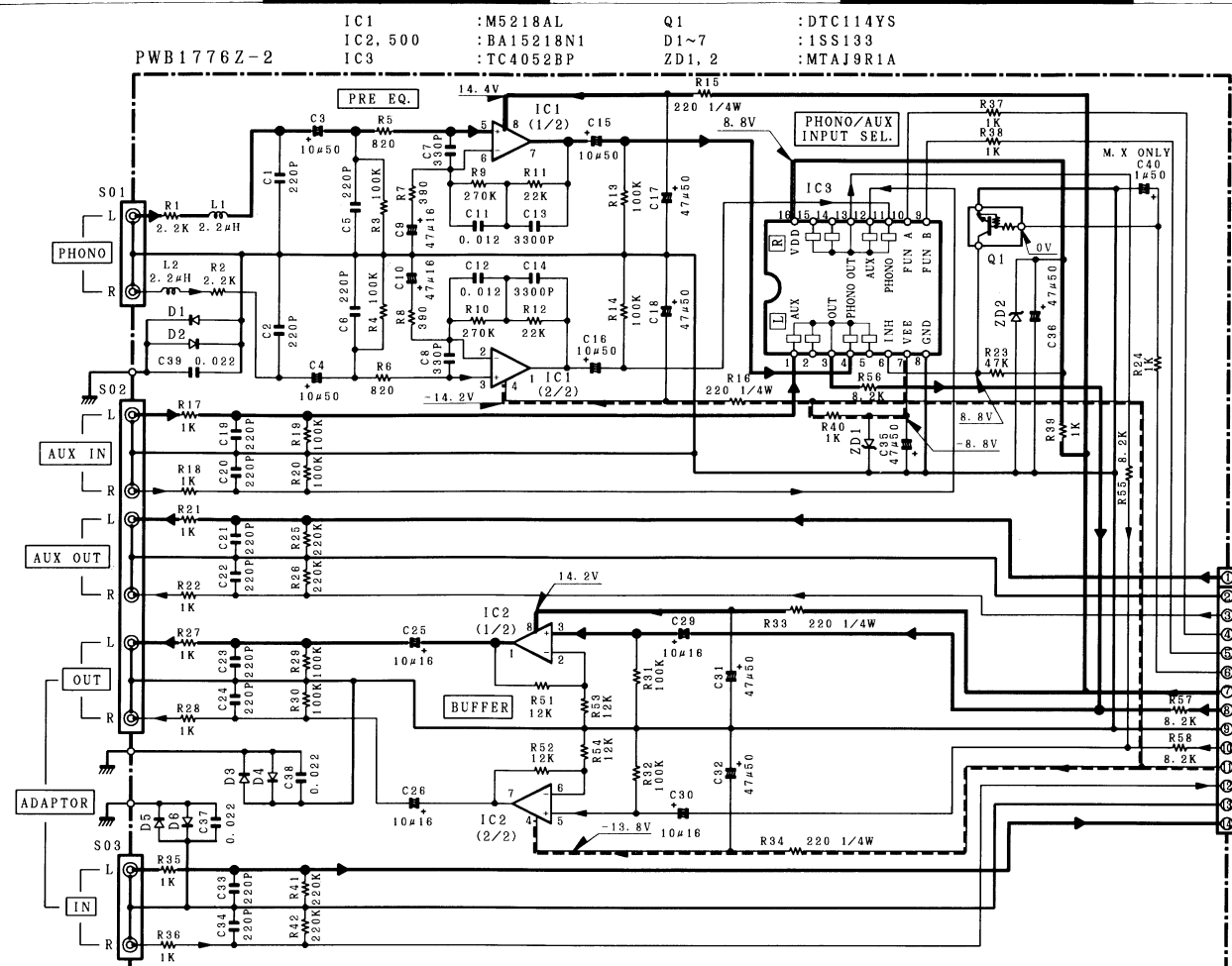
A B C D E F G H I J



PC BOARD (Component side view) CONTROL Unit



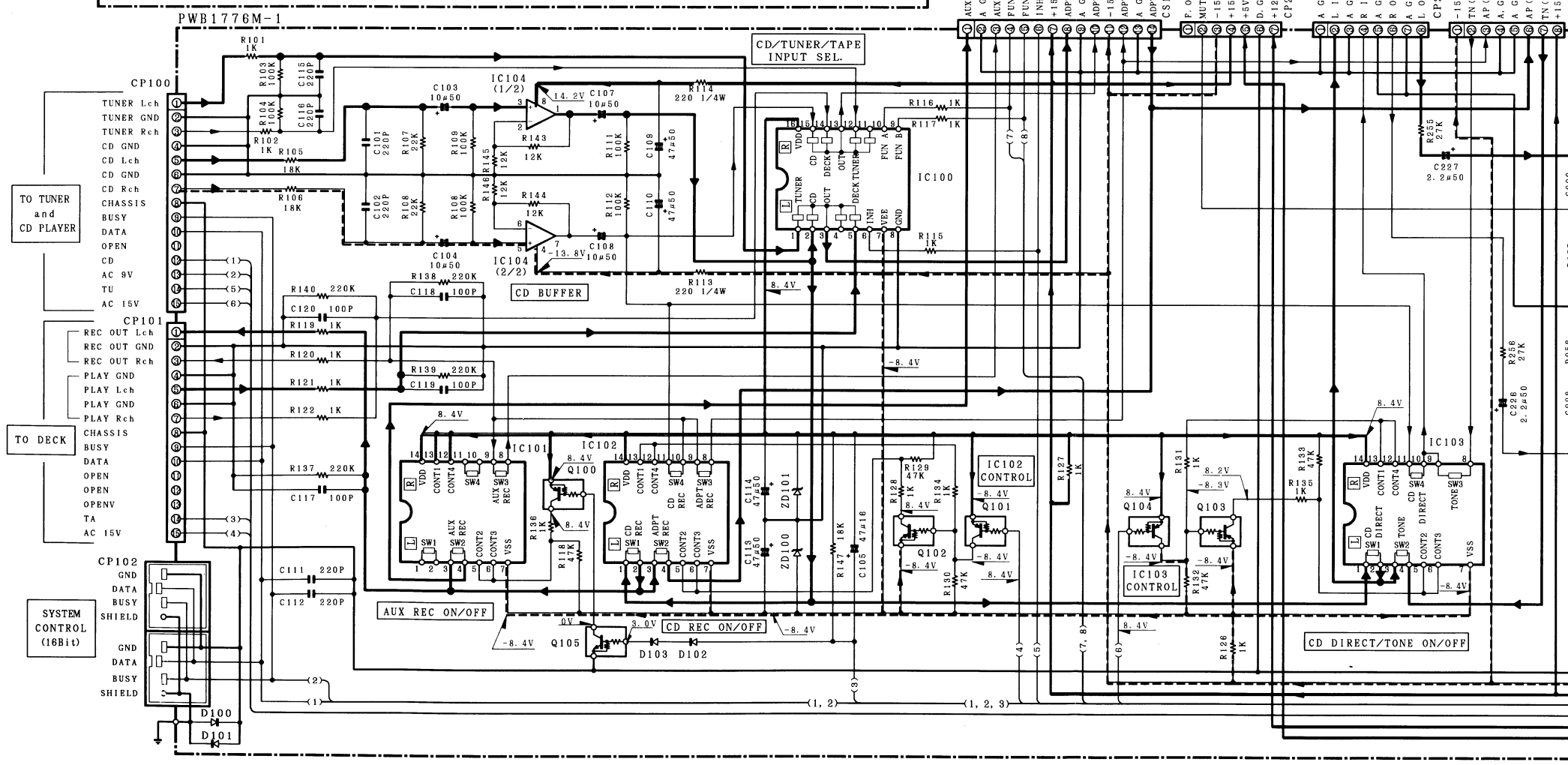
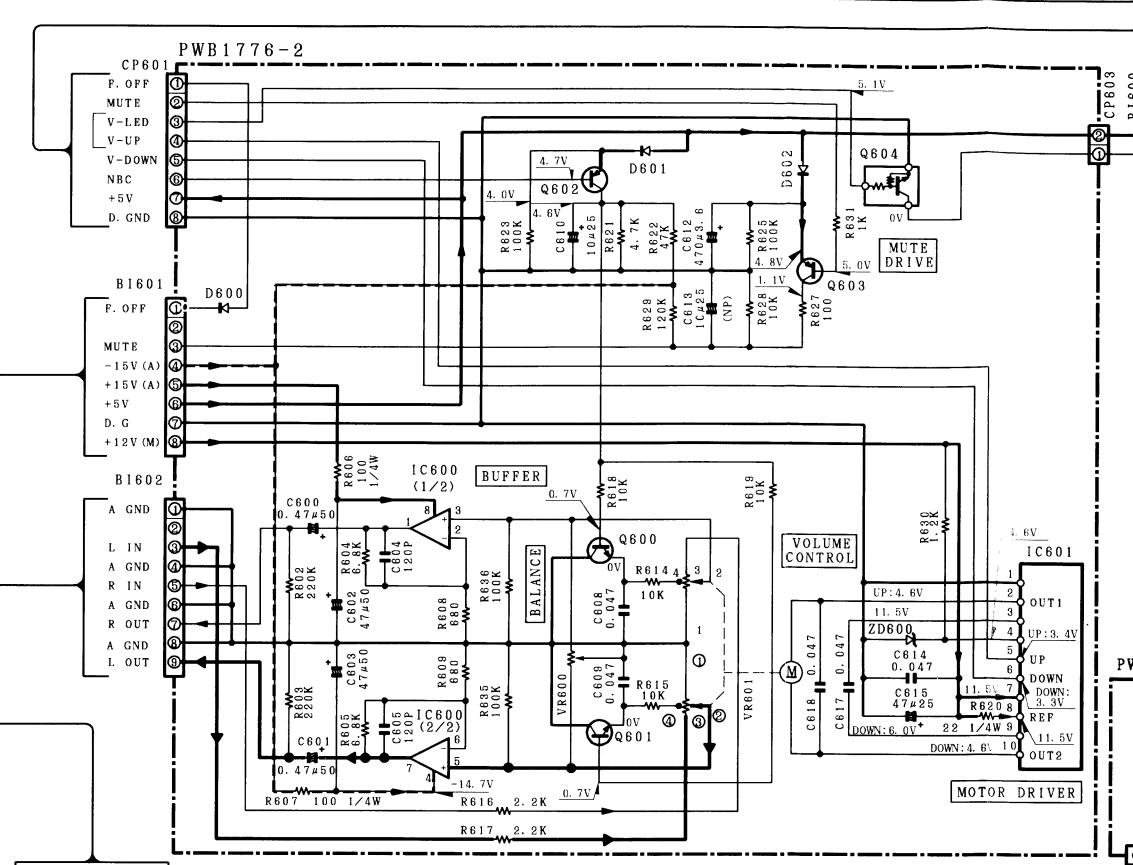
FRONT



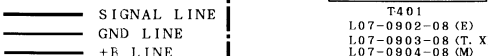
- IC100 : TC4052BP
IC101~103 : TC4066BP
IC104, 600 : BA15218N
IC201, 202 : UCP1225H
IC601 : LB1641
- Q100, 101 : DTA114YS
104, 213 :
Q102, 103 : DTC114YS
604 :
Q105 : DTC114ES
Q201, 202 : 2SC2878B
Q203, 204 : 2SD1858R3
Q205, 206 : 2SC3421Y3
Q207, 208 : 2SC3180NR
Q209, 210 : 2SA1263NR
Q211, 212 : 2SC1740SR
214, 215 :
Q303 : 2SD2012
Q304 : 2SB1375
Q400 : 2SD1858R3
Q602, 603 : 2SA933SR
- D100~104 : 1SS133
202~204 :
600~602 :
D200, 201 : RL104T
301, 400 :
304~307 :
D300 : D5SBA20
- ZD100, 101 : MTZJ9.1A
ZD301 : MTZJ5.1B
ZD303, 304 : MTZJ16BT
ZD600 : MTZJ4.7A

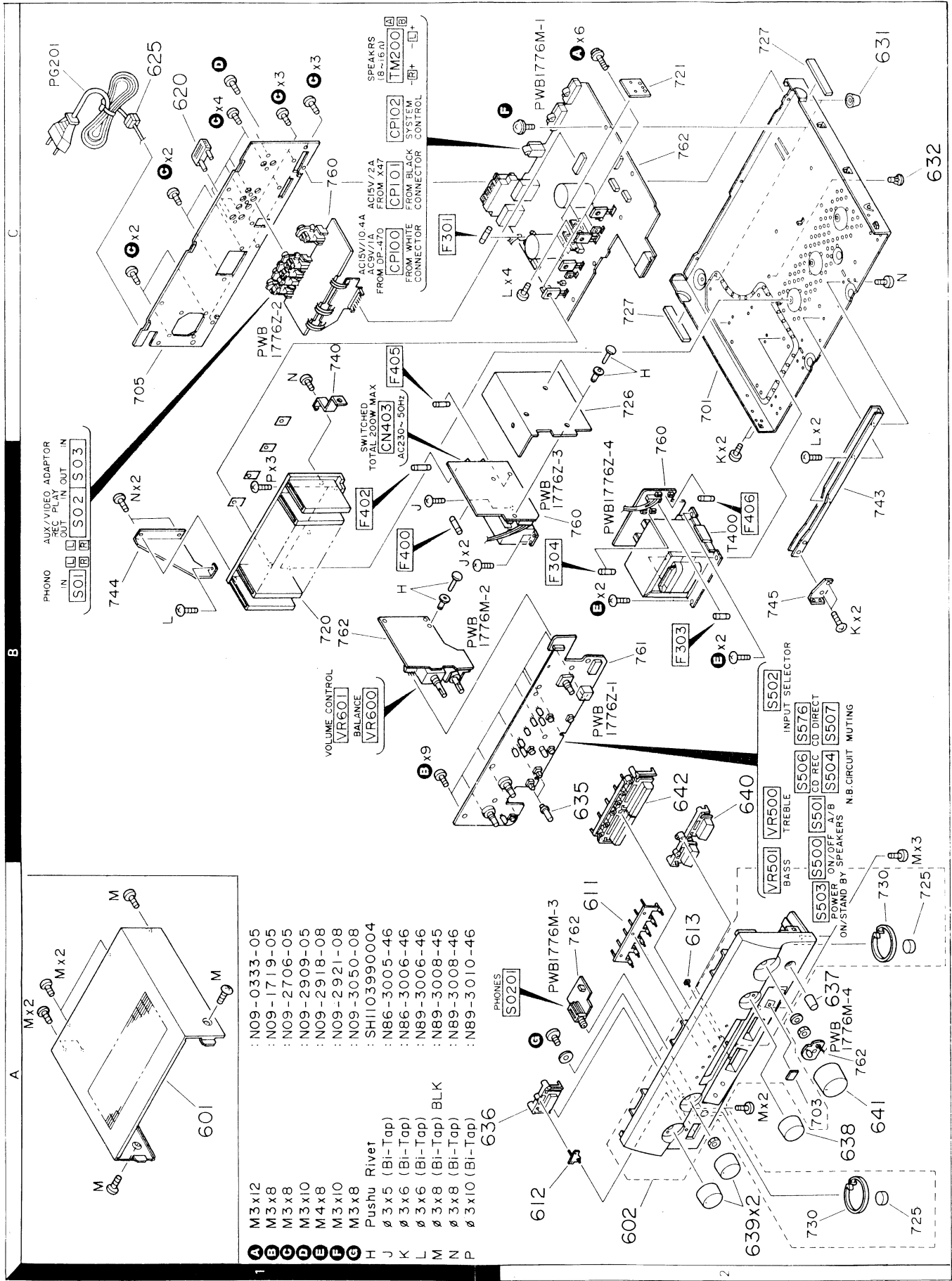
DESTINATION		R245	R248	C293	C294	L201
COUNTRY	ABB.					
ENGLAND	T	YES	YES	YES	YES	YES
EUROPE	E	YES	YES	YES	YES	YES
AUSTRALIA	X	NO	NO	NO	NO	NO
GENERAL MARKET	M	NO	NO	NO	NO	NO

DESTINATION		R302	R307
COUNTRY	ABB.		
ENGLAND	T	1K 3W	
EUROPE	E	1K 3W	
AUSTRALIA	X	680	
GENERAL MARKET	M	680	



⑦ +12V (M)
CP202





Parts with the exploded numbers larger than 700 are not supplied.

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Tele ohne Parts No. werden nicht geliefert.

No.1

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
601	1A	A01-3117-08	METALIC CABINET		
602	2A	A60-0854-08	PANEL ASSY		
611	2A	B11-0274-08	INDECATOR		
612	2A	B11-0275-08	INDECATOR		
613	2A	B11-0276-08	INDECATOR		
-	-	B46-0096-33	WARRANTY CARD		
-	-	B46-0310-03	WARRANTY CARD		
620	1C	SH1105240052	PIN		
PG201	1C	E30-2750-08	AC POWER CORD		
PG201	1C	E30-2753-08	AC POWER CORD		
PG201	1C	SH1105000038	AC POWER CORD		
-	-	H50-0825-08	ITEM CARTON CASE		
-	-	H50-0826-08	ITEM CARTON CASE		
-	-	H10-5728-08	POLYSTYRENE FOAMED FIXTURE L		
-	-	H10-5729-08	POLYSTYRENE FOAMED FIXTURE R		
-	-	H12-2185-08	PACKING FIXTURE		
-	-	H25-1512-08	PROTECTION BAG		
625	1C	SH1100040088	POWER CORD BUSHING		
631	2C	SH1102300060	REAR POWER CORD		
632	2C	SH1104130267	UNIT HOLDER		
635	2B	K27-2117-08	KN08 SPEAKER		
636	2A	K27-2118-08	KN08 POWER		
637	2A	K29-5876-08	KN08 BALANCE		
638	2A	K29-5877-08	KN08 INPUT SELECTOR		
639	2A	K29-5878-08	KN08 TONE		
640	2B	K29-5879-08	KN08 NB CIRCUIT-MUTING		
641	2A	K29-5880-08	KN08 VOLUME		
642	2B	K29-5881-08	KN08 CD DIRECT, CD REC		
T400	2B	L07-0898-08	POWER TRANS		
T400	2B	L07-0899-08	POWER TRANS		
T400	2B	L07-0900-08	POWER TRANS		
T400	2B	L07-0901-08	POWER TRANS		
A	2C	N09-0333-05	TAPPING SCREW (3X12)		
B	1B	N09-1719-05	TAPTITE SCREW (3X8)		
C	1C	N09-2706-05	TAPTITE SCREW (3X8)		
D	1C	N09-2909-05	TAPTITE SCREW (3X10)		
E	2B	N09-2918-08	SCREW (4X8)		
F	2C	N09-2921-08	SCREW (3X10)		
G	2A	N09-3050-08	SCREW (3X8)		
H	1B, 2C	SH1103990004	PUSHING RIVET		
J	1B	N86-3005-46	BINDING HEAD TAPTITE SCREW		
K	2B	N86-3006-46	BINDING HEAD TAPTITE SCREW		
L	1B, 2B	N89-3006-46	BINDING HEAD TAPTITE SCREW		
M	1A, 2A	N89-3008-46	BINDING HEAD TAPTITE SCREW		
N	1B, 1C	N89-3008-46	BINDING HEAD TAPTITE SCREW		
P	1B	N89-3010-46	BINDING HEAD TAPTITE SCREW		
ELECTRICAL UNIT					
C1	2	CC45SL1H221J	CERAMIC		
C3	4	CE04KW1H100M	ELECTRO		
C5	6	CC45SL1H221J	CERAMIC		
C7	8	CC45SL1H331J	CERAMIC		

EXPLODED VIEW

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PARTS LIST

No.2

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C9	10	CE04KW1C470M	ELECTRO		
C11	12	SH1125900162	CERAMIC		
C13	14	SH1125900164	CERAMIC		
C15	16	CE04KW1H100M	ELECTRO		
C17	18	CE04KW1H470M	ELECTRO		
C19	24	CC45SL1H221J	CERAMIC		
C25	26	CE04KW1C100M	ELECTRO		
C29	30	CE04KW1C100M	ELECTRO		
C31	32	CE04KW1H470M	ELECTRO		
C33	34	CC45SL1H221J	CERAMIC		
C35	36	CE04KW1H470M	ELECTRO		
C37	39	CC45FF1H223Z	CERAMIC		
C40	40	CE04KW1H010M	ELECTRO		
C101	102	CC45SL1H221J	CERAMIC		
C103	104	CE04KW1H100M	ELECTRO		
C105	108	CE04KW1C470M	ELECTRO		
C107	108	CE04KW1H100M	ELECTRO		
C109	110	CE04KW1H470M	ELECTRO		
C111	112	CC45SL1H221J	CERAMIC		
C113	114	CE04KW1H470M	ELECTRO		
C115	116	CC45SL1H221J	CERAMIC		
C117	120	SH1125900162	CERAMIC		
C201	202	SH1125900164	CERAMIC		
C203	206	CC45SL1H331J	CERAMIC		
C207	208	CE04KW1C101M	ELECTRO		
C209	210	CE04KW1H101M	ELECTRO		
C211	212	CC45SL1H330J	CERAMIC		
C213	214	SH1125900094	FILM		
C215	218	SH1125900079	CERAMIC		
C219	220	SH1125900145	CERAMIC		
C221	222	CE04KW1A101M	ELECTRO		
C222	222	CC45FF1H223Z	CERAMIC		
C226	227	CE04KW1H2R2M	ELECTRO		
C228	229	SH1165900065	CERAMIC		
C231	232	CC45FF1H223Z	CERAMIC		
C233	234	SH1115900277	FILM		
C235	236	CC45FF1H223Z	CERAMIC		
C237	238	SH1115900277	FILM		
C241	244	CC45FF1H223Z	CERAMIC		
C245	248	CC45FF1H473Z	CERAMIC		
C300	301	SH1305900734	FILM		
C302	303	SH1105900385	ELECTRO		
C305	306	SH1105900403	ELECTRO		
C306	306	CE04KW1H470M	ELECTRO		
C307	307	CC45FF1H473Z	CERAMIC		
C308	308	CE04KW1H470M	ELECTRO		
C309	309	SH1125900195	FILM		
C310	310	CC45FF1H473Z	CERAMIC		
C311	312	CE04KW1C102M	ELECTRO		
C312	312	CC45FF1H473Z	CERAMIC		
C315	316	CE04KW1H102M	ELECTRO		
C316	316	CC45FF1H473Z	CERAMIC		
C317	317	CE04KW1H102M	ELECTRO		
C319	319	CE04KW1H471M	ELECTRO		
C320	320	CE04KW1H470M	ELECTRO		

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Tele ohne Parts No. werden nicht geliefert.

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe

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PARTS LIST

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Y:AFES(Europe) X:Australia M:Other Areas  indicates safety critical components

Y:AAFES(Europe) X:Australia M:Other Areas indicates safety critical components

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No.3

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
C321		CK45FF1H473Z	CERAMIC	
C322		CE04KW1H470M	ELECTRØ	
C400	*	SH1105300386	CERAMIC	
C500, 501		CE04KW1H3B3M	ELECTRØ	
C502, 503		CE04KW1H470M	ELECTRØ	
C504, 505		CC45SL1H221J	CERAMIC	
C506, 507		CC45SL1H561J	CERAMIC	
C508, 509		CE04KW1E4R7M	ELECTRØ	
C510, 511		CC45SL1H561J	CERAMIC	
C512, 513		SH1125900147	CERAMIC	
C514, 515		CE04KW1H100M	ELECTRØ	
C516, 517		SH1105900119	CERAMIC	
C519		CK45FF1H103Z	CERAMIC	
C520		CE04KW1H010M	ELECTRØ	
C526	*	SH1305900266	ELECTRØ	
C527		CK45FF1H103Z	CERAMIC	
C530, 531		SH1305900596	CERAMIC	
C532		CK45FF1H473Z	CERAMIC	
C533		CE04KW1H470M	ELECTRØ	
C534		CK45FF1H223Z	CERAMIC	
C600, 601		CE04KW1HR47M	ELECTRØ	
C602, 603		CE04KW1H470M	ELECTRØ	
C604, 605		CC45SL1H121J	CERAMIC	
C608, 609		SH1259900079	CERAMIC	
C610		SH1259940009	NP ELECT	
C612		CE04KW0J471M	ELECTRØ	
C613	*	SH1259940009	NP ELECT	
C614		CK45FF1H473Z	CERAMIC	
C615		CE04KW1H470M	ELECTRØ	
C617, 618		CK45FF1H473Z	CERAMIC	
CP100		E08-1510-05	RECTANGULAR RECEPTACLE TØ T-47	
CP101		E08-1509-05	RECTANGULAR RECEPTACLE TØ X-47	
CP102	*	SH1105270126	PHONO JACK	
SØ1	*	E63-0112-08	PHONO JACK	
SØ2	*	SH1105170115	AUX/VCR, GE ØUT	
SØ3	*	E63-0112-08	PHONO JACK	
SØ201	*	E11-0258-08	GE INPUT	
SØ400	*	E03-0301-08	PHONE JACK	
SØ401	*	E03-0301-08	AC ØUTLET	
SØ400, 401	*	E03-0303-08	AC ØUTLET	
TM200		E70-0015-05	LOCK TERMINAL BOARD	
F301		F06-1022-05	FUSE (SEMØØ)	
F303		F05-1623-05	FUSE (SEMØØ)	
F304		F06-2021-05	FUSE (SEMØØ)	
F400		F05-1222-05	FUSE (SEMØØ)	
F402		F05-2525-05	FUSE (SEMØØ)	
F403		F05-1222-05	FUSE (SEMØØ)	
F404		F05-2525-05	FUSE (SEMØØ)	
F405		F05-6013-05	FUSE (SEMØØ)	
F406		F06-1022-05	FUSE (SEMØØ)	
-		J13-0075-05	FUSE HOLDER	
L1, L2		SH1105850008	CHØKE COIL	
L201, 202		SH1126140028	COIL	

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

indicates safety critical components

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No.4

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
L500		SH1305850009	CHØKE COIL	
T401	*	L07-0902-08	POWER TRANS	
T401	*	L07-0903-08	POWER TRANS	
T401	*	L07-0904-08	POWER TRANS	
XL500		L78-0267-05	RESØNATER	
R223, 224	*	SH1105810671	RS	
R235, 236	*	SH1105810685	MULTI-COMP	
R239, 340		RD148B2H100J	RD	
R245, 246		RD148B2H100J	RD	
R247, 248		RD148B2H4R7J	RD	
R249	*	SH1105810320	FUSE-R	
R302-307	*	SH1105810672	RS	
R302-307	*	SH1105810689	RS	
R310	*	SH1105810675	RS	
R402	*	SH1105810661	RS	
R620		SH1305810408	FUSE-R	
VR200, 202	*	R12-1617-08	TRIM PØT	
VR200, 501	*	SH1106700324	PØTENTIØ METER BASS, TREBLE	
VR601	*	SH1106700323	PØTENTIØ METER BALANCE	
VR601	*	SH1106700336	PØTENTIØ METER VØLUME	
RY200, 201	*	SH1126370033	MAGNETIC RELAY	
RY400		S76-0030-05	MAGNETIC RELAY	
S401	*	SH105300511	SLIDE SWITCH VOLTAGE SELECTØR	
S401	*	S66-0001-05	SLIDE SWITCH VOLTAGE SELECTØR	
S500, 501	*	S66-0034-08	PUSHU SWITCH SPEAKERS	
S503-507	*	S70-0024-08	TACT SWITCH KEY BOARD	
U502	*	T99-0549-08	ROTARY ENØORDER INPUT SELECTØR	
D1 -7		1SS133	D1ØØE	
D100-104		1SS133	D1ØØE	
D200, 201	*	RL104T	D1ØØE	
D202-204		1SS133	D1ØØE	
D300		D5SBA20	D1ØØE	
D301	*	RL104T	D1ØØE	
D304-307	*	RL104T	D1ØØE	
D400	*	1SS133	D1ØØE	
D500, 501		1SS133	D1ØØE	
D503-506		BA15218N	IC(ØP AMP X2)	
D509		1SS133	D1ØØE	
D512-518		1SS133	D1ØØE	
D601, 602		1SS133	D1ØØE	
IC1		BA15218N	IC(ØP AMP X2)	
IC2		IC4052BP	IC(4CH MPX/DE-MPX)	
IC3		IC4052BP	IC(4CH MPX/DE-MPX)	
IC100		IC4066BP	IC(ANALØG/ DIGITAL SW)	
IC101-103		BA15218N	IC(ØP AMP X2)	
IC104		UFC1225H	IC(PØWER AMP DRIVER)	
IC201, 202		BA15218N	IC(ØP AMP X2)	
IC500	*	TX171	IC(MICRØPROCESSØR)	
IC501	*	LS584201	IC(PHØTØ TRANSISTØR)	
IC502	*	PS16000	IC(SYSTEM RESET)	
IC503	*	BA15218N	IC(ØP AMP X2)	
IC600		IC600	IC(MØTØR DRIVER)	
L601	*	LB1641	LED	
LØ500	*	SLR34VC3	LED	

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

indicates safety critical components

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No.5

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
LD501-505	*	SLR34VC	LED	
LD507-510	*	SLR34VC	LED	
LED600	*	SLR34VC	LED	
g1		DTC114YS	DIGITAL TRANSISTØR	
g100, 101		DTA114YS	DIGITAL TRANSISTØR	
g102, 103		DTC114YS	DIGITAL TRANSISTØR	
g104		DTA114YS	DIGITAL TRANSISTØR	
g105		DTC114ES	DIGITAL TRANSISTØR	
Q201, 202		2SC2878B	TRANSISTØR	
Q203, 204		2SD1856R3	TRANSISTØR	
Q205, 206		2SC3421Y	TRANSISTØR	
Q207, 208	*	2SC3180NR	TRANSISTØR	
Q209, 210	*	2SA1263NR	TRANSISTØR	
Q211, 212		2SC1740SR	TRANSISTØR	
Q213		DTA114YS	DIGITAL TRANSISTØR	
Q214, 215		2SC1740SR	TRANSISTØR	
Q303		2SD2012	TRANSISTØR	
Q304		2SB1375	TRANSISTØR	
Q400		2SD1856R3	TRANSISTØR	
Q500, 501		2SC1740SR	TRANSISTØR	
Q508-510		DTC114YS	DIGITAL TRANSISTØR	
Q600, 601		2SC2878B	TRANSISTØR	
Q602, 603		2SA935SR	TRANSISTØR	
Q604		DTC114YS	DIGITAL TRANSISTØR	
ZØ1, 2		MTZ39.1A	ZENER DIØDE	
ZØ100, 101		MTZ39.1A	ZENER DIØDE	
ZØ301	*	MTZ39.1B	ZENER DIØDE	
ZØ303, 304		MTZ39.1B	ZENER DIØDE	
ZØ600		MTZ34.7A	ZENER DIØDE	

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PARTS LIST

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